NOVEMBER/DECEMBER 2023

23UFCS14 — PROBLEM SOLVING TECHNIQUES (FC)

Time : Three hours Maximum : 75 marks

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SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is a Computer?
2. List out Input and Output Devices.
3. Write some Data Types.
4. Define Algorithm.
5. Point out the Relational Operators.
6. Define Repetition Structure.
7. What is Data?
8. Define String.
9. What is Sub program?
10. Define Value Parameter.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Describe the Anatomy of Computer.

Or

(b) Explain the features of good programming language.

12. (a) Write the Benefits and Drawbacks of an Algorithm.

Or

(b) Explain the Symbols used in Flow chart.

13. (a) Discuss on Counter Controlled Loops.

Or

(b) Write a detailed note on Relational and Logical Operators.

14. (a) Describe on the Character based Data.

Or

(b) Discuss Two-dimensional Array with example.

15. (a) Explain the basics of file.

Or

(b) Give an overview on Scope of a Variable.

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SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Classify the Types of Computer.

17. Elaborate on different Phases in Program Development Cycle.

18. Describe Repetition Structure.

19. Explain the concept of Numeric Data and Character based Data.

20. Illustrate DFD Symbols and its Types.

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